



PUBLIC DISCLOSURE STATEMENT


APPLIED ENVIRONMENT & SAFETY PTY LTD

ORGANISATION CERTIFICATION

CY2023

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY	Applied Environment & Safety Pty Ltd
REPORTING PERIOD	1 January 2023 – 31 December 2023 Arrears report
DECLARATION	<p><i>To the best of my knowledge, the information provided in this public disclosure statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.</i></p> 
	<p>Melanie Dixon Director 29/04/2024</p>



Australian Government
**Department of Climate Change, Energy,
 the Environment and Water**

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Version August 2023.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	6 tCO ₂ -e
CARBON OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: Sustainable Business Consultants
TECHNICAL ASSESSMENT	N/A – Small organisation

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2. CERTIFICATION INFORMATION

Description of organisation certification

This certification includes the Australian operations of Applied Environment & Safety Pty Ltd, ABN 56 604 594 185, under the operational control approach. It includes all emissions for which the organisation is directly and indirectly responsible. It doesn't include Scope 3 accommodation and business travel (air and land) as these emissions belong to our clients.

This Public Disclosure Statement includes information for CY2023 reporting period.

Organisation description

Applied Environment & Safety Pty Ltd (ABN 56 604 594 185) ("AES") provides practical environmental and safety services. Our services include environmental planning and approvals; development of environmental and safety management plans and systems; onsite operational health, safety and environment management; inspections and auditing; and general health, safety and environment contractor services.

We work with a diverse range of clients and industries including construction, power and transmission, renewables, onshore oil & gas, roads and transport and more, to deliver successful environmental and safety outcomes.

Our staff operate from our clients' facilities and from our home offices in Queensland. A large portion of our work in CY2023 was onsite environmental management contractor services where we worked from our clients' facilities. Whilst at these facilities, accommodation and meals are provided by the clients. Business travel to those sites is also under the operational control of clients. As such the Scope 3 emissions relating to onsite work at client's facilities and travel to, is out of our control and has not been included. In prior years, we have chosen to include these in our carbon inventory and to purchase offsets. However this year (in line with Climate Active's recently introduced requirements), as these emission sources belong to the clients', they are not included in AES' carbon inventory.

3.EMISSIONS BOUNDARY

This is a small organisation certification, which uses the standard Climate Active small organisation emissions boundary.

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as relevant and are quantified in the carbon inventory. This may include emissions that are not identified as arising due to the operations of the certified entity, however are **optionally included**.

Non-quantified emissions have been assessed as relevant and are captured within the emissions boundary but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

Outside the emissions boundary

Excluded emissions are those that have been assessed as not relevant to an organisation's operations and are outside of its emissions boundary or are outside of the scope of the certification. These emissions are not part of the carbon neutral claim. Further detail is available at Appendix D.

Inside emissions boundary

Quantified

- Accommodation
- Carbon neutral products and services
- Cleaning and chemicals
- Electricity
- Food
- Fuel used in company vehicle
- ICT services and equipment
- Professional services
- Land and sea transport
- Office equipment and supplies
- Postage, courier and freight
- Transport (air)
- Transport (land and sea)
- Waste

Non-quantified

- Refrigerants
- Stationary energy – natural gas

Outside emission boundary

Excluded

Scope 3 emissions from accommodation, food, business travel and air travel that are under the operational control of our clients and which relate to Applied Environment & Safety's staff working at client sites.

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

We have reviewed our strategy this year and extended our timeline. Applied Environment & Safety commits to reducing total emissions of its business operations by 30% per cent by CY2030, from a CY2020 baseline.

The table below sets out our initiatives across Scopes 1 and 3. Scope 2 electricity is not currently applicable for our company as we all work from home.

For completeness, we have retained past years in the table to show what has been achieved to date.

Initiative	CY2022	CY2023	CY2024	CY2025	CY2026	CY2027	CY2028	CY2029	CY2030	Target
Scope 1: Fuel used in company vehicles										
Changing vehicle fleet to electric vehicles					x					100% electric vehicles by CY2026
Scope 3: Energy relating to working from home										
Incentivise staff to use Carbon Neutral energy plans	x	x	x	x	x	x	x	x	x	Implementation of 100% Carbon Neutral home energy for Company Directors by CY2025. Continue to explore options for employees.
60% electricity coverage through home solar panels for people working from home	x	x	x	x	x	x	x	x	x	Target not achieved for CY2023. An employee's home option does not allow for solar power. Review options for employees and continue to aim to meet initiative in coming years'
Scope 3: Policy and strategy										
Purchase of carbon neutral certified products and services	x	x	x	x	x	x	x	x	x	Annual updates to procurement plan and investigating the market for carbon neutral alternatives
Pursue local contracts			x	x	x	x	x	x	x	Actively pursue work contracts locally to reduce travel distances.
Review and update of emissions reduction strategy			x			x				Review and where required, update, emissions reduction strategy to reflect current and upcoming work contracts.

Emissions reduction actions

Applied Environment & Safety (AES) has now achieved 75% Carbon Neutral home energy (for staff working from home). The remaining 25% relates to a staff member who cannot choose their electricity retailer. Similarly with solar power.

5. EMISSIONS SUMMARY

Emissions over time

Due to a change in the nature of the way our services are provided and billed to clients, some of the emissions previously under our operational control have been excluded. Our operational emissions for those categories is now zero. These include accommodation, food and business travel (air and land).

From base year to year 3, AES optionally included travel to client sites. The exclusion of these emission sources in 2023 has partly resulted in the decrease in emissions in year 4.

Emissions since base year			
		Total tCO ₂ -e (without uplift)	Total tCO ₂ -e (with uplift)
Base year/Year 1:	2020	12.6	13.4
Year 2:	2021	15.4	16.1
Year 3:	2022	10.9	11.4
Year 4:	2023	5.7	5.9

Significant changes in emissions

Significant changes in emissions			
Emission source	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Reason for change
Petrol: medium car	2.32	3.35	Increase in travel from home to airport for interstate work

Use of Climate Active carbon neutral products, services, buildings or precincts

Certified brand name	Product/Service/Building/Precinct used
N/A	

Emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a market-based approach.

Emission category	Sum of Total Emissions (t CO ₂ -e)
Accommodation and facilities	0.00
Cleaning and chemicals	0.00
Electricity	0.00
Food	0.00
ICT services and equipment	0.83
Postage, courier and freight	0.02
Professional services	1.22
Transport (air)	0.00
Transport (land and sea)	3.35
Waste	0.02
Water	0.04
Working from home	0.07
Office equipment and supplies	0.09
Total	5.65

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions that cannot be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

Reason for uplift factor	tCO ₂ -e
Mandatory 5% uplift for small organisations	0.28
Total of all uplift factors (tCO ₂ -e)	0.28
Total emissions footprint to offset (tCO₂-e) <i>(total emissions from summary table + total of all uplift factors)</i>	5.93

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Carbon Units (VCUs)	6	100%

Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Stapled quantity	Eligible quantity retired (tCO ₂ -e)	Eligible quantity used for previous reporting periods	Eligible quantity banked for future reporting periods	Eligible quantity used for this reporting period	Percentage of total (%)
Bundled Solar Power Project by Solararise India Projects PVT. LTD.	VCU	Verra	29 April 2024	10730-245111361-245111366-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0	2018	-	6	0	0	6	100%
Total eligible offsets retired and used for this report										6	
Total eligible offsets retired this report and banked for use in future reports									0		

Co-benefits

These bundled solar power projects displace greenhouse gas emissions and instead using renewable energy.

Other co-benefits include the generation of local employment during the construction and operation phases; the development of infrastructure in the region; local commerce and improved access to local power generation; as well as technological benefits.

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

There are two international best-practice methods for calculating electricity emissions – the location-based method and the market-based method. Reporting electricity emissions under both methods is called dual reporting.

Dual reporting of electricity emissions is useful, as it provides different perspectives of the emissions associated with a business's electricity usage.

Location-based method:

The location-based method provides a picture of a business's electricity emissions in the context of its location, and the emissions intensity of the electricity grid it relies on. It reflects the average emissions intensity of the electricity grid in the location (State) in which energy consumption occurs. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method:

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments. It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

For this certification, electricity emissions (Scope 2 + 3) have been quantified as 0 kg CO₂e as Applied Environment & Safety does not own or lease any office premises.

Market-based approach summary			
Market-based approach	Activity Data (kWh)	Emissions (kg CO ₂ -e)	Renewable percentage of total
Behind the meter consumption of electricity generated	0	0	0%
Total non-grid electricity	0	0	0%
LGC Purchased and retired (kWh) (including PPAs)	0	0	0%
GreenPower	0	0	0%
Climate Active precinct/building (voluntary renewables)	0	0	0%
Precinct/Building (LRET)	0	0	0%
Precinct/Building jurisdictional renewables (LGCS surrendered)	0	0	0%
Electricity products (voluntary renewables)	0	0	0%
Electricity products (LRET)	0	0	0%
Electricity products jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	0	0	0%
Residual Electricity	0	0	0%
Total renewable electricity (grid + non grid)	0	0	0%
Total grid electricity	0	0	0%
Total electricity (grid + non grid)	0	0	0%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	0	0	
Scope 2	0	0	
Scope 3 (includes T&D emissions from consumption under operational control)	0	0	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	0.00%
Mandatory	0.00%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO₂-e)	0.00
Residual scope 3 emissions (t CO₂-e)	0.00
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.00
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.00
Total emissions liability (t CO₂-e)	0.00

Figures may not sum due to rounding. Renewable percentage can be above 100%

Location-based approach summary						
Location-based approach	Activity Data (kWh) total	Under operational control			Not under operational control	
Percentage of grid electricity consumption under operational control	100%	(kWh)	Scope 2 Emissions (kgCO ₂ -e)	Scope 3 Emissions (kgCO ₂ -e)	(kWh)	Scope 3 Emissions (kgCO ₂ -e)
ACT	0	0	0	0	0	0
NSW	0	0	0	0	0	0
SA	0	0	0	0	0	0
VIC	0	0	0	0	0	0
QLD	0	0	0	0	0	0
NT	0	0	0	0	0	0
WA	0	0	0	0	0	0
TAS	0	0	0	0	0	0
Grid electricity (scope 2 and 3)	0	0	0	0	0	0
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	0	0	0	0		
QLD	0	0	0	0		
NT	0	0	0	0		
WA	0	0	0	0		
TAS	0	0	0	0		
Non-grid electricity (behind the meter)	0	0	0	0		
Total electricity (grid + non grid)	0					

Residual scope 2 emissions (t CO₂-e)	0.00
Residual scope 3 emissions (t CO₂-e)	0.00
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.00
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.00
Total emissions liability	0.00

Operations in Climate Active buildings and precincts

Operations in Climate Active buildings and precincts	Electricity consumed in Climate Active certified building/precinct (kWh)	Emissions (kg CO ₂ -e)
N/A	0	0
<p><i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their building or precinct certification. This electricity consumption is also included in the market based and location-based summary tables. Any electricity that has been sourced as renewable electricity by the building/precinct under the market-based method is outlined as such in the market-based summary table.</i></p>		

Climate Active carbon neutral electricity products

Climate Active carbon neutral electricity product used	Electricity claimed from Climate Active electricity products (kWh)	Emissions (kg CO ₂ -e)
N/A	0	0
<p><i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their electricity product certification. This electricity consumption is also included in the market based and location-based summary tables. Any electricity that has been sourced as renewable electricity by the electricity product under the market-based method is outlined as such in the market-based summary table.</i></p>		

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following emissions sources have been assessed as relevant, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. They have been non-quantified due to one of the following reasons:

1. **Immaterial** <1% for individual items and no more than 5% collectively
2. **Cost effective** Quantification is not cost effective relative to the size of the emission but uplift applied.
3. **Data unavailable** Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
4. **Maintenance** Initial emissions non-quantified but repairs and replacements quantified.

Relevant non-quantified emission sources	Justification reason
Refrigerants	Immaterial
Stationery energy – natural gas	Immaterial

Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to this organisation's operations and are outside of its emissions boundary. These emissions are not part of the carbon neutral claim. Emission sources considered for relevance must be included within the certification boundary if they meet two of the five relevance criteria. Those which only meet one condition of the relevance test can be excluded from the certification boundary.

Emissions tested for relevance are detailed below against each of the following criteria:

1. **Size** The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions.
2. **Influence** The responsible entity has the potential to influence the reduction of emissions from a particular source.
3. **Risk** The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.
4. **Stakeholders** Key stakeholders deem the emissions from a particular source are relevant.
5. **Outsourcing** The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.

Excluded emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Food and accommodation whilst working at client sites	Y	N	N	N	N	<p>Size: The emissions source would be large compared to the rest of our carbon inventory however we have no operational control over these emissions which relate to travel to remote sites owned and operated by our clients.</p> <p>Influence: We do not have the potential to influence the emissions from this source.</p> <p>Risk: These sources do not create supply chain risks as they are not under our operational control.</p> <p>Stakeholders: The reasons for not including these emissions are clear in this certification and therefore key stakeholders are unlikely to consider this a relevant source of emissions for our business.</p> <p>Outsourcing: These sources are outside our operational control.</p>
Business travel (air and land) to client sites for which are under clients' operational control	Y	N	N	N	N	<p>Size: The emissions source would be large compared to the rest of our carbon inventory however we have no operational control over these emissions which relate to travel to remote sites owned and operated by our clients.</p> <p>Influence: We do not have the potential to influence the emissions from this source.</p> <p>Risk: These sources do not create supply chain risks as they are not under our operational control.</p> <p>Stakeholders: The reasons for not including these emissions are clear in this certification and therefore key stakeholders are unlikely to consider this a relevant source of emissions for our business.</p> <p>Outsourcing: These sources are outside our operational control.</p>



An Australian Government Initiative

